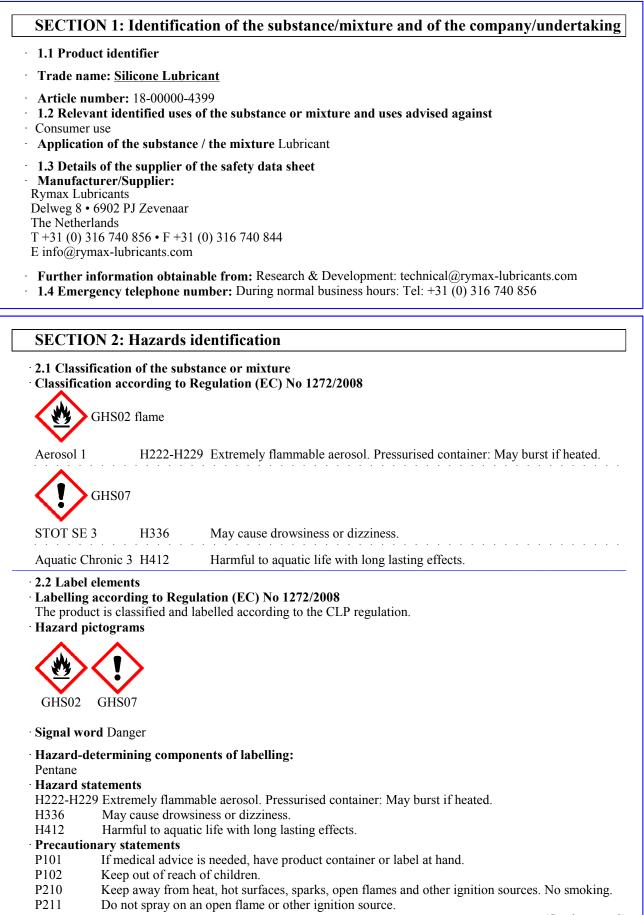
Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 22.07.2019

## Version: 43

Revision: 10.07.2019



(Contd. on page 2)



Version: 43

Revision: 10.07.2019

Trade name: Silicone Lubricant

	(Contd. of page 1)				
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.				
P304+P34	0 IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P312	Call a POISON CENTER/doctor if you feel unwell.				
P403+P23	3 Store in a well-ventilated place. Keep container tightly closed.				
P405	Store locked up.				
P410+P41	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.				
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.				
<ul> <li>Additiona</li> </ul>	l information:				
Buildup of	explosive mixtures possible without sufficient ventilation.				
· 2.3 Other	· 2.3 Other hazards				
· Results of PBT and vPvB assessment					
· PBT: Not	• <b>PBT:</b> Not applicable.				
• <b>vPvB:</b> Not	applicable.				

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description: Active substance with propellant

· Dangerous components:						
CAS: 106-97-8	butane (containing < 0.1% butadiene (203-450-8))	50-<75%				
EINECS: 203-448-7	Flam. Gas 1, H220; Press. Gas (Comp.), H280					
Reg.nr.: 01-2119474691-32						
CAS: 74-98-6	propane	10-<25%				
EINECS: 200-827-9	Flam. Gas 1, H220; Press. Gas (Comp.), H280					
Reg.nr.: 01-2119486944-21						
CAS: 109-66-0	Pentane	2.5-<10%				
EINECS: 203-692-4	Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411;					
Reg.nr.: 01-2119459286-30						
CAS: 75-28-5	isobutane (containing $< 0,1$ % butadiene (203-450-8))	2.5-<10%				
EINECS: 200-857-2	Flam. Gas 1, H220; Press. Gas (Comp.), H280					
Reg.nr.: 01-2119485395-27						

• Additional information:

## **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:

Water haze

(Contd. on page 3)

GB

RYMAX MADE IN HOLLAND Printing date: 22.07.2019

# Safety data sheet according to 1907/2006/EC, Article 31

Version: 43

Revision: 10.07.2019

Trade name: Silicone Lubricant

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

• For safety reasons unsuitable extinguishing agents: Water with full jet

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

•7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurised containers.

## • Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

- Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

• Additional information about design of technical facilities: No further data; see item 7.

#### · 8.1 Control parameters

## · Ingredients with limit values that require monitoring at the workplace:

#### 106-97-8 butane (containing < 0.1% butadiene (203-450-8))

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

(Contd. on page 4)





Version: 43

Revision: 10.07.2019

Trade name: Silicone Lubricant

		(Contd. of page 3)			
74-98-6 p	74-98-6 propane				
WEL Lor	ng-term value: 1800 mg/m <sup>3</sup>				
109-66-0	109-66-0 Pentane				
WEL Lor	ng-term value: 1800 mg/m <sup>3</sup> , 6	00 ppm			
75-28-5 is	75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8))				
	ort-term value: 2400 mg/m <sup>3</sup>				
Lor	ng-term value: 1900 mg/m <sup>3</sup>				
· DNELs					
109-66-0	109-66-0 Pentane				
Oral	DNEL Long term-systemic	214 mg/kg bw/day (Consumer)			
Dermal	DNEL Long term-systemic	214 mg/kg bw/day (Consumer)			
		432 mg/kg bw/day (Worker)			
Inhalative	DNEL Long term-systemic	643 mg/m3 (Consumer)			
		3000 mg/m3 (Worker)			
· Additiona	I information: The lists vali	d during the making were used as basis.			

#### · 8.2 Exposure controls

· Personal protective equipment:

• General protective and hygienic measures: Wash hands before breaks and at the end of work.

#### · Respiratory protection:

#### Filter AX/P2

Use suitable respiratory protective device in case of insufficient ventilation.

#### Filter A2/P2

#### Protection of hands:

Wear gloves for the protection against chemicals according to EN 374 Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves** 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5 \text{ mm}$ 

#### Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses



Tightly sealed goggles

• Body protection: Use protective suit. (EN-13034/6)

(Contd. on page 5)



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# Safety data sheet according to 1907/2006/EC, Article 31

Version: 43

Revision: 10.07.2019

**Trade name: Silicone Lubricant** 

(Contd. of page 4)

9.1 Information on basic physical and c	hemical properties
General Information	
Appearance:	
Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	:-44.5 °C
Flash point:	-97 °C
Flammability (solid, gas):	Not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/
	vapour mixtures are possible.
	Not determined.
Explosion limits:	
Lower:	1.4 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C:	3300 hPa
	3.0 Bar
Density at 20 °C:	~0.536 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	91.0 %
Solids content:	0.0 %
9.2 Other information	No further relevant information available.

## **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 6)

GB



Version: 43

Revision: 10.07.2019

Trade name: Silicone Lubricant

(Contd. of page 5)

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity 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.
- STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

## · 12.1 Toxicity

- · Aquatic toxicity:
- 109-66-0 Pentane
- NOEC (72h) 7.51 mg/l (Pseudokirchneriella subcapitata)
- EC50 (72h) 10.7 mg/l (Pseudokirchneriella subcapitata)

LC50/96h 4.26 mg/l (Oncorhynchus mykiss (96h))

EC50/48h 2.7 mg/l (Daphnia magna)

- 12.2 Persistence and degradability Easily biodegradable
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Harmful to aquatic organisms
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

# · European waste catalogue

#### HP3 Flammable

HP14 Ecotoxic

(Contd. on page 7)



Version: 43

Revision: 10.07.2019

Trade name: Silicone Lubricant

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Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informa	
14.1 UN-Number ADR, ADN, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR, ADN	UN1950 AEROSOLS
IMDG	AEROSOLS
ΙΑΤΑ	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
ADN	
ADN/R Class:	2 5F
Class	2.1
Label	2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler): EMS Number:	- F-D.S-U
	SW1 Protected from sources of heat.
Stowage Code	SW1 Protected from sources of neat. SW22 For AEROSOLS with a maximum capacity of 1
	litre: Category A. For AEROSOLS with a maximum capacity above
	1 litre: Category B. For WASTE AEROSOLS: Category
	C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1
0 0	litre:
	Segregation as for class 9. Stow "separated from" class 1
	except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.

(Contd. of page 6)



Version: 43

Revision: 10.07.2019

Trade name: Silicone Lubricant

	(Contd. of page 7
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

## **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

Class Share in %

NK 75-<100

- **VOC-CH** 91.00 %
- · VOC-EU ~487.8 g/l
- · Danish MAL Code 2-1
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information** 

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Relevant phrases**

- H220 Extremely flammable gas.
- H224 Extremely flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Research & Development
- · Contact: Ing. J. Sleumer
- · Abbreviations and acronyms:

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

- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

(Contd. on page 9)



Version: 43

Revision: 10.07.2019

# Trade name: Silicone Lubricant

(Contd. of pa	ge 8)
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)	
DNEL: Derived No-Effect Level (REACH)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1: Flammable gases – Category 1	
Aerosol 1: Aerosols – Category 1	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Flam. Liq. 1: Flammable liquids – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3	
* Data compared to the previous version altered. *	
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