

SAFETY DATA SHEET

PRODUCT NAME: VROOAM SILICONE SPRAY 0,4I



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : VROOAM Silicone Spray 0,4I
Product code : 63934

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Lubricant

1.3. Details of the supplier of the safety data sheet

VROOAM Powersports Lubricants INT. B.V.
Aventurijn 300
3316 LB Dordrecht (NL)
0031 (0) 78 750 1632
www.vrooam-lubricants.com
info@vrooam-lubricants.com

· Further information obtainable from: Product Safety Department

1.4. Emergency telephone number: 0031 (0) 78 750 16 32 (9 AM to 5 PM, Monday to Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008



GHS02 flame

Aerosol 1 : H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

STOT SE 3 : H336 May cause drowsiness or dizziness.
Aquatic Chronic 3 : H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms (CLP) :



GHS02



GHS07

Signal word (CLP) : Danger

Hazard-determining components of labelling: Pentane

Hazard statements (CLP) : H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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| | |
|--------------------------------|--|
| Precautionary statements (CLP) | <p>H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects. : 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. 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+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. 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.</p> |
| Additional information | : Buildup of explosive mixtures possible without sufficient ventilation. |

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Description: Active substance with propellant

3.2. Mixtures

| Dangerous components | | |
|---|---|----------|
| CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32 | butane (containing < 0.1% butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 50-<75% |
| CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21 | propane Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 10-<25% |
| CAS: 109-66-0 EINECS: 203-692-4 Reg.nr.: 01-2119459286-30 | Pentane Flam. Liq. 1, H224; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336 | 2.5-<10% |
| CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27 | isobutane (containing < 0,1 % butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 2.5-<10% |

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. |

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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
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.

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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 ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene) |
| 74-98-6 propane | |
| WEL | Long-term value: 1800 mg/m ³ |
| 109-66-0 Pentane | |
| WEL | Long-term value: 1800 mg/m ³ , 600 ppm |
| 75-28-5 isobutane (containing < 0,1 % butadiene (203-450-8)) | |
| WEL | Short-term value: 2400 mg/m ³ Long-term value: 1900 mg/m ³ |

| DNELs | | |
|-------------------------|-------------------------|---|
| 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/m ³ (Consumer) 3000 mg/m ³ (Worker) |

Additional information: The lists valid 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.
Do not inhale gases / fumes / aerosols.

Respiratory protection:

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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: ≥ 0.5 mm

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: ≤ 0.5 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 through 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)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

| | |
|-----------------|--------------------------------------|
| Form | : Aerosol |
| Colour | : According to product specification |
| Odour | : characteristic. |
| Odour threshold | : Not determined. |
| pH -value | : Not determined |

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Change in condition:

| | |
|---|---|
| Melting 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 self igniting. |
| Explosive properties | : Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. Not determined. |

Explosion limits:

| | |
|-------|--------------|
| Lower | : 1.4Vol % |
| Upper | : 10.9 Vol % |

| | |
|--------------------------|-----------------------|
| Vapour pressure at 20 °C | : 3300 hPa 3.0 Bar |
|--------------------------|-----------------------|

| | |
|------------------|----------------------------|
| Density at 20 °C | : ~0.536 g/cm ³ |
| 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.

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10.6. Hazardous decomposition products

No dangerous decomposition products known.

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 : Causes skin irritation.

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 (carcinogenicity, 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 : May be fatal if swallowed and enters airways.

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.

Ecotoxicological 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.

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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 |

Uncleaned packaging:

Recommendation : Disposal must be made according to official regulations.

RUBRIEK 14: Informatie met betrekking tot het vervoer

| | |
|---|-----------------------|
| 14.1 UN-Number | |
| ADR, ADN, IMDG, IATA | : UN1950 |
| 14.2 UN proper shipping name | |
| ADR, ADN | : UN1950 AEROSOLS |
| IMDG | : AEROSOLS |
| IATA | : AEROSOLS, flammable |
| 14.3 Transport hazard class(es) | |
| ADR | |
|  | |
| Class | : 2.1 |
| Label | : 2.1 |
| ADN | |
| ADN/R Class | : 2.1 |
| IMDG, IATA | |
|  | |
| Class | : 2.1 |
| Label | : 2.1 |
| 14.4 Packing group | |
| ADR, IMDG, IATA | : Void |
| 14.5 Environmental hazards: | |
| Marine pollutant | : No |

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14.6 Special precautions for user

| | |
|----------------------|---|
| Warning | : Gases. |
| Danger code (Kemler) | : - |
| - EMS Number | : F-D, S-U |
| | SW1 Protected from sources of heat. |
| | SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a 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 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 Annex II of Marpol and the IBC Code

Not applicable.

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 |

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.

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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: VROOAM Lubricants

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 |
| 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. *