



MATERIAL SAFETY DATA SHEET

(in accordance with CE 1907/2006 – REACH)

1. Identification of the substance/preparation and of the company

1.1 **Product name:**

SILICON RACE SPRAY

1.2 **Relevant identified uses of the substance or mixture:**

Spray lubricant for food grade industry (NSF H1)

Uses advises against:

All except above indicated

1.3 **Manufacturer/Supplier:**

Nils S.p.A.
Via Stazione, 30
39014 Postal (BZ)
ITALY

Tel. +39 0473 29 24 00

e-mail: nils@nils.it

Fax: +39 0473 29 12 44

www.nils.eu

Reference to safety data sheet:

Tel +39 0473 292400

schedasicurezza@nils.it

1.4 **Emergency telephone number:**

Nils S.p.A:+39 0473 29 24 00 (only available during office hours)

Centro Antiveleni Ospedale Niguarda Milano: +39 02 66101029

2. Hazards identification

2.1 **Class. Accord. to CE 1272/2008:**

Hazard categories:

Aerosol: Aerosol 1

Hazard Statements:

Extremely flammable aerosol

Pressurised container: May burst if heated.

2.2 **Label elements CE 1272/2008:**
Pictograms:



GHS02

Signal word:

Signal word: Danger

Hazard statements H:

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements P:

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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3 **Other hazards :**

None

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| 3. Composition/information on ingredients | | | | | |
|---|------------|-----------|---|-------|---------------------------------------|
| 3.1 Mixtures Dangerous components: | | | | | |
| Nr. CE | Nr. CAS | Nr. Reach | Description | % | Class. 1272/08 |
| 203-448-7 | 106-97-8 | | Butane | 55-60 | Flam. Gas 1, Liquefied gas; H220 H280 |
| 200-827-9 | 74-98-6 | | Propane | 25-30 | Flam. Gas 1, Liquefied gas; H220 H280 |
| | 63148-62-9 | | Polydimethylsiloxane | 15-20 | |
| Additional information: | | | Complete list H hazard statements is indicated in point 16 of this MSDS. | | |
| 4. First aid measures | | | | | |
| 4.1 General information: | | | Take affected persons out of danger area and lay down. Keep warm and rested. In case of unconsciousness place patient stably in side position for transportation and seek medical advice. Provide fresh air. In case of respiratory tract irritation, consult a doctor (if possible show the label of this product). In case of skin contact wash with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation occurs, consult a doctor. Rinse opened eye for several minutes under running water, than consult a doctor Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. | | |
| - after inhalation: | | | | | |
| - after skin contact: | | | | | |
| - after eye contact: | | | | | |
| - after swallowing: | | | | | |
| 4.2 Most important symptoms and effects, both acute and delayed: | | | No data available. | | |
| 4.3 Indication of any immediate medical attention and special treatment needed: | | | Symptomatic treatment. | | |
| 5. Fire fighting measures | | | | | |
| 5.1 Extinguishing media: | | | Carbon dioxide (CO ₂), foam, extinguishing powder. Water jet. | | |
| Suitable extinguishing media: | | | | | |
| 5.2 Special hazards arising from the substance or mixture: | | | Combustible. Vapours can form explosive mixtures with air. | | |
| 5.3 Advice for firefighters: | | | In case of fire: Wear self-contained breathing apparatus. | | |
| 5.4 Additional information: | | | Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. | | |
| 6. Accidental release measures | | | | | |
| 6.1 Personal precautions, protective equipment and emergency procedures: | | | Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. | | |
| 6.2 Environmental precautions: | | | Do not allow uncontrolled discharge of product into the environment. Danger of explosion. | | |
| 6.3 Methods and material for containment and cleaning up: | | | Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. | | |
| 6.4 Reference to other sections: | | | Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 | | |

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| 7. Handling and storage | | | | | | | | | | | |
|--|--|--|-----|-----|-------------------|------------------|------|------|------------------|-----|------|
| 7.1 | Precautions for safe handling: | Pressurised container: do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. | | | | | | | | | |
| | Information about protection against explosions and fires: | Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air. | | | | | | | | | |
| 7.2 | Conditions for safe storage, including any incompatibilities: | Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not store together with: oxygen-rich material, oxidizing and combustible substances, pyrophoric or self-heating substances. | | | | | | | | | |
| 7.3 | Specific end use(s): | Observe technical data sheet. | | | | | | | | | |
| 8. Exposure controls and personal protection | | | | | | | | | | | |
| 8.1 | Control parameters: | TWA (8h): Exposure limit values | | | | | | | | | |
| | Exposure limits: | <table border="1"> <thead> <tr> <th>CAS</th><th>ppm</th><th>mg/m³</th></tr> </thead> <tbody> <tr> <td>Propane, 74-98-6</td><td>1000</td><td>1800</td></tr> <tr> <td>Butane, 106-97-8</td><td>800</td><td>1900</td></tr> </tbody> </table> | CAS | ppm | mg/m ³ | Propane, 74-98-6 | 1000 | 1800 | Butane, 106-97-8 | 800 | 1900 |
| CAS | ppm | mg/m ³ | | | | | | | | | |
| Propane, 74-98-6 | 1000 | 1800 | | | | | | | | | |
| Butane, 106-97-8 | 800 | 1900 | | | | | | | | | |
| | Exposure controls | | | | | | | | | | |
| | -Personal protective equipment: | If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. | | | | | | | | | |
| | -General protective and hygiene measures: | Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. | | | | | | | | | |
| | -Respiratory protection: | In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus: Combination filtering device (EN 14387) A-P2 | | | | | | | | | |
| | -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. Suitable material: , Butyl caoutchouc (butyl rubber) (0,5 mm), Breakthrough time (maximum wearing time): 4h, For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. | | | | | | | | | |
| | -Eye protection: | Wear eye/face protection. Suitable eye protection: goggles, Eye glasses with side protection (DIN EN 166). | | | | | | | | | |
| | -Body protection: | Wear anti-static footwear and clothing | | | | | | | | | |

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9. Physical and chemical properties

| | | | |
|----------------------------------|---------------|-------------|---------------|
| Physical and chemical properties | | | |
| Form: | Aerosol | | |
| Colour: | Colourless | | |
| Odour: | Odourless | | |
| | Value | Unit | Method |
| Initial boiling point / range: | <-20 | °C | |
| Flash point: | <-20 | °C | |
| Explosion limits: lower limit: | 1.4 | % vol | |
| Explosion limits: upper limit: | 10.8 | % vol | |
| Ignition temperature: | 365 | °C | |
| Oxidizing properties: | Not oxidizing | | |
| Density at 20°C: | 0.598 | g/cm³ | |
| Solubility in water at 20°C: | insoluble | | |

10. Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity: | Flammable, Ignition hazard. |
| 10.2 Chemical stability: | The product is stable under storage at normal environmental temperatures. |
| 10.3 Possibility of hazardous reactions: | No known hazardous reactions. |
| 10.4 Conditions to avoid: | Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. |
| 10.5 Incompatible materials: | No information available. |
| 10.6 Hazardous decomposition products: | In case of fire may form dangerous gasses/vapours, toxic. |

11. Toxicological information

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|---|----------------------|---|----------------------|--------------------------------|
| 11.1 Information on toxicological effects: | | | | |
| Acute toxicity: | | | | |
| CAS | Substance | LD 50 oral, rat | LD 50 dermal, rabbit | LD 50 inhalation (4h) gas, rat |
| 106-97-8 | Butane | - | - | 658 ppm (gestis) |
| 63148-62-9 | Polydimethylsiloxane | >15400 mg/kg | >2000 mg/kg | |
| Irritation and corrosivity: | | Based on available data, the classification criteria are not met. | | |
| Sensitising effects: | | Based on available data, the classification criteria are not met. | | |
| STOT-single exposure: | | Based on available data, the classification criteria are not met. | | |
| Severe effects after repeated or prolonged exposure: | | Based on available data, the classification criteria are not met. | | |
| This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. | | | | |

12. Ecological information

| | | | | | | | | |
|----------|--|--|---------|---------|----------|--------|------|--|
| 12.1 | Toxicity: | CAS 63148-62-9 Polydimethylsiloxane EC50 (daphnia magna, 48h) > 200 mg/l | | | | | | |
| 12.2 | Persistence and degradability: | The product has not been tested. | | | | | | |
| 12.3 | Bioaccumulative potential: | Partition coefficient n-octanol/water: | | | | | | |
| | <table><tr><td>CAS</td><td>Product</td><td>Log Pow</td></tr><tr><td>106-97-8</td><td>Butane</td><td>2.89</td></tr></table> | CAS | Product | Log Pow | 106-97-8 | Butane | 2.89 | |
| CAS | Product | Log Pow | | | | | | |
| 106-97-8 | Butane | 2.89 | | | | | | |
| 12.4 | Mobility in soil: | The product has not been tested. | | | | | | |
| 12.5 | Results of PBT and vPvB assessment: | The product has not been tested. | | | | | | |
| 12.6 | Other adverse effects: | Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. | | | | | | |



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13. Disposal considerations

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|-------------------------------------|--|
| 13.1 Waste treatment methods | Do not allow to enter into surface water or drains. Dispose of waste according to applicable local legislation. |
| -Waste key: | 16 05 04 |
| -Contaminated packaging: | Classified as hazardous waste. Completely emptied and clean packages can be recycled. Handle contaminated packaging in the same way as the substance itself. Dispose of waste according to applicable local legislation. |

14. Transport information

Land transport (ADR/RID)

| | |
|---|-----------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2 |
| Hazard label: | 2.1 |
| Classification code: | 5F |
| Special Provisions: | 190 327 344 625 |
| Limited quantity: | 1 L |
| Transport category: | 2 |
| Tunnel restriction code: | D |
| Other applicable information (land transport): | E0 |

Inland waterways transport (ADN)

| | |
|---|-----------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2 |
| Hazard label: | 2.1 |
| Classification code: | 5F |
| Special Provisions: | 190 327 344 625 |
| Limited quantity: | 1 L |
| Other applicable information (inland waterways transport): | E0 |

Marine transport (IMDG)

| | |
|---|-----------------------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Hazard label: | 2.1 |
| Special Provisions: | 63, 190, 277, 327, 344, 959 |
| Limited quantity: | 1000 ml |
| EmS: | F-D, S-U |
| Other applicable information (marine transport): | E0 |

Air transport (ICAO)

| | |
|---|---------------------|
| 14.1. UN number: | UN 1950 |
| 14.2. UN proper shipping name: | AEROSOLS, flammable |
| 14.3. Transport hazard class(es): | 2.1 |
| Hazard label: | 2.1 |
| Special Provisions: | A145 A167 A802 |
| Limited quantity Passenger: | 30 kg G |
| IATA-packing instructions - Passenger: | 203 |
| IATA-max. quantity - Passenger: | 75 kg |
| IATA-packing instructions - Cargo: | 203 |
| IATA-max. quantity - Cargo: | 150 kg |
| Other applicable information (air transport) : | E0 Y203 |

| | |
|---|-------------------------------|
| 14.5 Environmental hazards: | ENVIRONMENTALLY HAZARDOUS: no |
| 14.6 Special precautions for users: | Warning: Flammable gases. |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Not applicable |

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| 15. Regulations | |
|---|--|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | Reg. CE 1272/2008 (CLP) Reg. CE 790/2009 (1° ATP CLP) Reg. 1907/2006 (Reach) Reg. UE 453/2010 |
| 1999/13/CE (VOC): | 84.5 % (505.31 g/l) |
| More information: | To be observed: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC |
| Employment restrictions: Water hazard class (German reg.): | Observe employment restrictions for young people. WGK 1 (slightly hazardous for water). |
| 15.2 Chemical safety assessment | Chemical safety assessments for substances in this mixture were not carried out. |
| 16. Other information | |
| <p>This MSDS was prepared in accordance to REACH 1907/2006/EC.</p> <p>Relevant H hazard statements in point 3:</p> <p>H hazard statements: H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H280 Contains gas under pressure; may explode if heated.</p> <p>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. Info MSDS: schedasicurezza@nils.it</p> <p>Reviewed on: 01.06.2015</p> | |