

Safety Data Sheet (REACH)



According to Norm (CE) n°1907/2006 and Norm (CE) n° 453/2010

| | | | | |
|-----------------------------|-------------------------|----------------------------|--------------------|-------------------------------|
| Name of the product: | GREENOX SILICONE | Issue date 04/14 | Version 2.0 | Replaces Version:1.0 03/13 |
|-----------------------------|-------------------------|----------------------------|--------------------|-------------------------------|

SECTION 1 : Identification of the mixture, of the society or company


- 1.1 **Product identifier:** GREENOX SILICONE
 1.2 **Identified relevant uses and non-recommended uses:** Lubricant
 1.3 **Data of the provider of the security sheet:** NOVASOL SPRAY, S.A.
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 43712 Tarragona – España
 Tel. +34-977.67.73.05
 Fax. +34-977.67.80.72
 E-mail: novasol@novasolspray.com
 1.4 **Emergency telephone ;** Tel. +34-977.67.73.05 (8:30-18:00) (Bureaux)

SECTION 2 : Identification of the dangers

2.1 Classification of the mixture

| | |
|-------------|--|
| Health | Non classified |
| Physical | H222: Extremely flammable aerosol. H229: Pressurized container: May explode if heated. |
| Environment | Non classified |

2.2 Elements of the label

| | |
|------------------------|---|
| Precaution symbols |  |
| Warning sentences | Danger |
| Hazard sentences | H222: Extremely flammable aerosol. H229: Pressurized container: May explode if heated. |
| Security sentences | P210: Keep away from heat, sparks, open flames and hot surfaces – No smoking. P211: Do not spray on an open flame or other ignition source. P251: Pressurized container: Do not pierce or burn, even after use. P410-P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P102: Keep out of the reach of children. P261: Avoid breathing spray. P271: Use only outdoors or in a well-ventilated area. |
| Additional information | - |
| Hazardous ingredients | - |

2.3 Other dangers

None

SECTION 3 : Composition/information about the ingredients

3.1 Substances

Non applicable

3.2 Mixtures

| Dangerous ingredients | Register Number | N° CAS | EC-Nr. | % w/w | Class and category of the hazard | Indications of the hazard | Symbol Direct. 67/548/CE | R Senten. Direct. 67/548/CE | Re m. |
|-----------------------|-----------------|----------|-----------|-------|----------------------------------|---------------------------|--------------------------|-----------------------------|-------|
| Butane | | 106-97-8 | 203-448-7 | 25-50 | Flamm. gas 1; Gas under pressure | H220, H280 | F+ | 12 | |
| Propane | | 74-98-6 | 200-827-9 | 10-25 | Flamm. gas 1; Gas under pressure | H220, H280 | F+ | 12 | |
| Isobutane | | 75-28-5 | 200-857-2 | 10-15 | Flamm. gas 1; Gas under pressure | H220, H280 | F+ | 12 | |

SECTION 4 : First Aid Measures

4.1 Description of the first aid measures

- Eye Contact :** If the substance has got in contact with the eyes, wash them with plenty of water during at least 15 minutes, afterwards bring him/her to a medical examination.
Skin contact : Take away the clothes immediately and soak the affected skin with plenty of water. Afterwards wash with water and soap. If the irritation persists, seek medical advice
Inhalation : Bring him/her out in the fresh air. Keep him/her wrapped up and restful, in a semi-erect position. Loosen the cloths. In case of discomfort, look for medical advice.
Ingestion : No not induce vomiting and look for medical advice

4.2 Main symptoms, sharp and delayed effects.

- Eye Contact :** May cause eye irritation
Skin contact : May cause irritation.
Inhalation : May cause headache, dizziness, tiredness, muscular weakness, drowsiness and in extreme cases, loss of conscience.
Ingestion : May cause sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhea.

4.3 Indications about medical care and especial treatment that should be given immediately.

In case of discomfort, seek medical advice (if possible show him/her the label). If the symptoms persist, seek always medical advice.

SECTION 5 : Fire fighting measures

5.1 Extinguishing media:

Foam, carbon dioxide or dry powder.

5.2 Specific hazards derivative of the substance or of the mixture.

Aerosols may explode from internal pressure build-up when exposed to temperatures exceeding 50°C. It builds up products of hazardous breakdown: CO, CO₂.

5.3 Recommendations for the fire fighting staff.

Keep cool the cans exposed to fired, sprinkling them with water. In case of fire, no dot breath the gases.

SECTION 6 : Measures in case of accidental spill

6.1 Personal precautions, protective equipment and emergency procedures.

Extinguish all sources of ignition. Assure a good air circulation. Use suitable protective clothes and gloves.

6.2 Precautions concerning the environment

Do not allow to discharge the product either into the public drains or into watercourses.

If the polluted water reaches the drains or watercourses, inform immediately the competent authorities.

6.3 Methods, contentment material and cleaning up.

Collect the spill with non-combustible absorbent materials (soil, sand, diatomaceous earth...)

Put into a convenient container.

6.4 Reference to other sections

For the control of exposition and measures concerning individual protection, see epigraph 8.

For the later elimination of the waste, follow the recommendations of epigraph 13.

SECTION 7 : Handling and storage

7.1 Precautions for a sure handling

Accomplish with the in force legislation about labour risk prevention. Keep away from heat and sources of ignition. Prevent accumulation of electrostatic charges. Use anti-deflagrating, lighting electrical material. Use only tools which do not produce sparks. Do not breath aerosol or vapours. Assure suitable ventilation. Avoid contact with eyes and skin. Wash carefully after use. Use gloves/clothes/glasses/protective masks. Have ready bottles for eye protection.

7.2 Conditions of sure storage, including possible incompatibility

Entrance prohibited to non-authorized staff. Keep out of the reach of children. The product must be stored isolated from electrical and ignition sources. Do not smoke within the area of storage. Prevent the direct solar radiation. Prevent extreme wet conditions. Keep away from oxidant agents and highly alkaline materials or strong acids.

7.3 Final specific uses

Lubricant

SECTION 8 : Controls of exposition/individual protection

8.1 Control parameters

Limit values of professional exposition:

| INSHT 2012 Values | N° CAS | VLA-ED | | VLA-EC | |
|-------------------|----------|--------|-------------------|--------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Butane | 106-97-8 | 1000 | | | |
| Propane | 74-98-6 | 1000 | | | |
| Isobutane | 75-28-5 | 1000 | | | |

VLA – (Environment Limit Value) ED – (Dairy exposition) EC – (Short time exposition)

8.2 Exposition controls

| | |
|----------------------------------|--|
| Control procedures: | Assure suitable ventilation. Keep away of heat and sources of ignition. Avoid accumulation of electrostatic charges. |
| Personal protection: | Take suitable precautions to avoid contact with skin and eyes when manipulating it. Assure good ventilation. |
| Breath protection: | In case of insufficient ventilation, use suitable respiratory equipment. Gases mask and organic vapours (A,AX) (EN141-143) |
| Skin and hand protection: | Wear suitable protective gloves (butyl rubber) (EN374) |
| Eyes protection: | Wear protective glasses (EN166). |

SECTION 9 : Physical and chemical properties.

9.1 Information about basic physical and chemical properties

| | |
|-----------------------------|---------------------------------|
| Physical state | Aerosol |
| Odour | Characteristic |
| pH | Non applicable |
| Boiling point | -12°C a 1 atm. |
| Flashpoint | - 82,7°C (Propellant) |
| High limit of explosion | 9,9% Volume |
| Inferior limit of explosion | 2,2% Volume |
| Auto flammability | >200°C |
| Vapour pressure | Non applicable |
| Relative density | 0,630 g/cm ³ at 20°C |
| Water solubility | immiscible |
| Viscosity | Not applicable |

9.2 Additional information

| | |
|--------------|---------------|
| Non volatile | 26.6 % Weight |
| COV/VOC | 73.4 % Weight |
| COV/VOC | 463 g/l |

SECTION 10 : Stability and reactivity

10.1 Reactivity: Hazardous reactions unknown if the product is used to the pretended use.

10.2 Stability: Stable under recommended conditions of storage and handling.

10.3 Possibility of hazardous reactions: Hazardous reactions unknown if the product is used to the pretended use.

10.4 Conditions to be avoided: Avoid re-heating

10.5 Non compatible materials: Keep away from strong oxidizing agents and strongly alkaline and strongly acid.

10.6 Breakdown hazardous products: CO, CO₂

SECTION 11 : toxicological information

11.1 Information about toxicological effects

| | |
|-----------------------|---|
| Inhalation: | The solvent vapours may cause nausea, headache and dizziness. |
| Ingestion: | May cause gastrointestinal disturbances |
| Skin contact : | Repeated exposure may cause skin dryness or cracking |
| Eyes contact : | May irritate the eyes |

Toxicological data

| Hazardous ingredients | N° CAS | DL50 mg/kg oral | DL50 mg/kg skin | CL50 mg/m ³ inhalation |
|-----------------------|--------|-----------------|-----------------|-----------------------------------|
| | | | | |

SECTION 12 : Ecological information

12.1 Toxicity: Toxic to aquatic organism. May cause long-term adverse effects in the aquatic environment.

Eco toxicological data

| Hazardous ingredients | N° CAS | EC50 – mg/l | IC50 – mg/l | LC50 – mg/l – 96h. |
|-----------------------|----------|--------------------|-------------|--------------------|
| Butane | 106-97-8 | 4,71 – 96 h. algae | | |
| Propane | 74-98-6 | 4,71 – 96 h. algae | | |

- 12.2 Persistence and degradability: Not available
 12.3 Bioaccumulation. Not available
 12.4 Mobility in soil: Not available
 12.5 Results of PBT & mPmB assessments: Not available
 12.6 Other adverse effects: Not available

SECTION 13 : Considerations concerning the elimination

13.1 Methods for the waste treatment

| | |
|----------------------------|---|
| Product | Eliminate the product waste and its containers with all the possible precautions. Do not discharge into the drains or in the environment. Eliminate in an authorized waste collection point |
| Polluting container | The disposal will be effected according to the local, regional or national ordinances. |

SECTION 14 : Information concerning the transport

- 14.1 ONU Number: UN 1950
 14.2 Transport official designation of the United Nations: AEROSOLS
 14.3 Hazard class for the transport: Class; 2.1 / ADR/RID – Classification code: 5F
 14.4 Packing group: Not applicable
 14.5 Hazards for the environment
 ADR/RID – Hazardous for the environment: No
 IMDG – Maritime Pollutant: No
 IATA/ICAO – Hazardous for the environment: No
 14.6 Specific precautions for the users:
 ADR/RID – Tunnel code: (D)
 IMDG – Ems; F-D, S-U
 IATA/ICAO – PAX 203
 IATA/ICAO – CAO 203
 14.7 Bulk transport in accordance with Annexe II of MARPOL Agreement 73/78 and Code IBC
 Not applicable

SECTION 15 : Regulatory information


- 15.1 Specific rules and legislation in terms of security, health and environment for the mixtures.
 Directive 2008/47/EC modifications of the aerosol Directive 75/324/EEC Directive 99/45/EU. Norms CE n° 1907/2006
 15.2 Evaluation of the chemical security
 Not available

SECTION 16 : Other information

Explanation about hazardous indications

H220: Gas extremely flammable. H280: Contains gas under pressure.

Classification according to the Directive 1999/45/CE – 67/548/CEE

| | |
|------------------------|--|
| Precaution symbols | F+ Extremely flammable  |
| Hazard sentences | R12: Extremely flammable. |
| Security sentences | S2: Keep out of the reach of children. S-15: Protect from heat. S16: Keep away from any source of ignition – No smoking. S23: Do not breath vapours. S51: Use only in well ventilated areas. S46: If swallowed, seek medical advice immediately and show him/her this container or label. |
| Additional information | P96: Pressurized container: protect from sun light and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. P97: Do not spray on a naked flame or any incandescent material. Keep away from any flame or any source of ignition – No smoking. Keep out of the reach of children. |
| Hazardous ingredients | - |

Explanation of hazardous sentences

R12: Extremely flammable

The information of this Safety Data Sheet regarding the product is based on the present knowledge, on the laws in force in the EU and on the national laws, considering that the working conditions of the users are out of our acknowledgment and control. The product must not be used to different purposes than those specified in the epigraph 1. It is always responsibility of the user to take the suitable measures in order to accomplish the established requirements in the local norms and in the in force legislation. The information contained in this Safety Data Sheet does not mean a description of the security requirements of the product and it must not be considered a warrantee of its properties.


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