

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

<b>Name of the product:</b>	<b>GREENOX Multipurpose-Loosener</b>	<b>Issue date</b>	<b>Version:</b>	Replaces Version:
		<b>05/15</b>	<b>2.0</b>	1.0 03/13

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



- 1.1 **Product identifier:** GREENOX – MULTIPURPOSE-LOOSENER  
 1.2 **Identified relevant uses and non-recommended uses:** LUBRICANT  
 1.3 **Data of the provider of the security sheet:** NOVASOL SPRAY, S.A.  
 Pol. Ind. Empalme – c/ Empalme nº 27  
 43712 Tarragona – España  
 Tel. +34-977.67.73.05  
 Fax. +34-977.67.80.72  
 E-mail: [novasol@novasolspray.com](mailto:novasol@novasolspray.com)  
 1.4 **Emergency telephone ;** Tel. +34-977.67.73.05 (8:30-18:00) (Offices)

### SECTION 2 : Identification of the dangers

#### 2.1 Classification of the mixture

Health	H336: May cause drowsiness and dizziness. EUH066: Repeated exposure may cause skin dryness or cracking.
Physical	H222: Extremely flammable aerosol. H229: Pressurized container: May explode if heated.
Environment	Non classified.

#### 2.2 Elements of the label

Pictograms	 
Warning words	Danger Attention
Hazard indications	H222: Extremely flammable aerosol. H229: Pressurized container: May explode if heated. Stot SE 3 - H336: May cause drowsiness and dizziness. EUH066: Repeated exposure may cause skin dryness or cracking.
Precautionary	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  
Not applicable  
3.2 Mixtures

Hazardous ingredients	Register Number	CAS Nr.	EC-Nr.	% w/w	Class and category of the hazard	Indications of the hazard	Sym bol	R Sent.	R
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	01-2119475103-46-xxxx	64742-48-9	919-857-5	25-50	Asp.Tox.1. Flamm. Liq.3, STOT SE3.3. Skin Irrit.3	H304, H226, EUH066, H336	Xn	10-65-66-67	
Methyl salicylate		119-36-8	204-317-7	<1			Xn	22-36	
Butane		106-97-8	203-448-7	20-30	Flamm Gas.1, Gas under pressure	H220, H280	F+	12	
Propane		74-98-6	200-827-9	10-15	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 irritate the eyes.  
**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, CO<sub>2</sub>.

### 5.3 Recommendations for the fire fighting staff.

Keep cool the cans exposed to fire, 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, content 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

LUBRICANTS

## 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	64742-48-9	-	1200	-	-
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

<b>Control procedures:</b>	Assure suitable ventilation. Keep away of heat and sources of ignition. Avoid accumulation of electrostatic charges.
<b>Personal protection:</b>	Take suitable precautions to avoid contact with skin and eyes when manipulating it. Assure good ventilation.
<b>Breath protection:</b>	In case of insufficient ventilation, use suitable respiratory equipment. Gases mask and organic vapours (A,AX) (EN141-143)
<b>Skin and hand protection:</b>	Wear suitable protective gloves (butyl rubber) (EN374)
<b>Eyes protection:</b>	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	Not 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	Not applicable
Relative density	0,665 g/cm3 at 20°C
Water solubility	Immiscible
Viscosity	Not applicable

### 9.2 Additional information

Non volatile	12.9 % Weight
COV/VOC	87.1 % Weight
COV/VOC	580 g/l

## SECCION 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, CO<sub>2</sub>

## SECTION 11 : Toxicological Information

### 11.1 Information about toxicological effects

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

### Toxicological data

Hazardous ingredients	N° CAS	DL50 mg/kg oral	DL50 mg/kg skin	CL50 mg/m <sup>3</sup> inhalation
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	64742-48-9	>5000 - Rat	>5000 - Rabbit	4951- Rat – 6h.

## SECTION 12 : Ecological information

12.1 Toxicity: Non classified.

**Eco toxicological data**

Hazardous ingredients	Nº CAS	EC50 – mg/l	IC50 – mg/l	LC50 – mg/l – 96h.
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	64742-48-9	>1000 – 48 – Daphna		>1000
Butane	106-97-8	4,71 – 96 h - Algae		
Propane	74-98-6	4,71 – 96 h - Algae		
isobutane	75-28-5	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 nº 1907/2006

15.2 Evaluation of the chemical security


Not available

### SECTION 16 : Other information

#### Explanation hazard indications

H220: Extremely flammable gas. H280: Contains gas under pressure, may explode if heated. H226: Flammable liquid and vapours. H336: May cause drowsiness and dizziness. H304: May be fatal if swallowed and enters airways. EUH066: Repeated exposure may cause skin dryness or cracking.

#### Classification according to Norm 1999/45/CE – 67/548/CEE

Precaution symbols	F+ : Extremely flammable 
Hazard sentences	R12: Extremely flammable. R:66 Repeated exposure may cause skin dryness or cracking.
Security sentences	S2: Keep out of reach of children. S15: Keep away from the heat. S16: Keep away from sources of ignition – No smoking. S23: Do not breath aerosols. 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

R10: Flammable. R12: Extremely flammable. R22: Harmful if swallowed. R36: Irritating to eyes. R65: Harmful: may cause lung damage if swallowed.. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness.

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.