



SAFETY DATA SHEET

SBLOKKA spray

Current revision date: 28/11/2019

current revision no.: 05

Previous revision date: 11/06/2014

previous revision no.: 04

SECTION 1. Identification of substance or mixture and company/enterprise

1.1 Product identifier

Trade name : SBLOKKA spray
ISS Code : SBLO

1.2 Relevant identified uses of the substance or mixture and not recommended uses

Professional use [SU22] : Lubricant unlocking – 400 ml spray cylinder
Uses not recommended : All those not expressly specified in the label

1.3 Information about the safety data sheet provider

1.3.1 Supplier of the substance/mixture

FACOT CHEMICALS srl
Via Crema, 44 - 26010 CAPRALBA (CR)
tel. +39.0373.450642 - fax +39.0373.450751 – www.facotitalia.com
e-mail of referee: msds@facot.it

1.4 Emergency telephone number

Poison Centres in Italy open 24h a day (<https://preparatipericolosi.iss.it/cav.aspx>)

Name of Poison Center	Hospital Papa Giovanni XXIII - BERGAMO	Name of Poison Center	Florence - Hosp. "Careggi" U.O. Medical Toxicology
Emergency telephone	800 88 33 00	Emergency telephone	055 79 47 819
Name of Poison Center	Foggia - Hosp. Univ. Foggia	Name of Poison Center	Milan - Hosp. Niguarda Ca' Granda
Emergency telephone	0881 732326	Emergency telephone	02 66 10 10 29
Name of Poison Center	Naples - Hosp. "A. Cardarelli"	Name of Poison Center	Pavia - CAV National Toxicology Information Centre
Emergency telephone	081 7472870	Emergency telephone	0382 24 444
Name of Poison Center	Rome - CAVp "Osp. Pediatrico Bambino Gesù"	Name of Poison Center	Rome - CAV Policlinico "A. Gemelli"
Emergency telephone	06 68593726	Emergency telephone	06 30 54 343
Name of Poison Center	Rome - CAV Policlinico "Umberto I"		
Emergency telephone	06 49 97 80 00		

Section 16 of the safety data sheet contains the contact details of some poison centres in Europe.

SECTION 2. Hazard identification

2.1 Classification of the substance or mixture

2.1.1 1272/2008 Classification within the meaning of Regulation (CE) No. 1272/2008:

Pictograms : GHS02
Class codes and category of danger: : Flam. Aerosol 1, Asp. Tox. 1
Hazard indication codes : H222 – Extremely flammable aerosol.
H229 - Pressurized container: can explode when heated.
H304 - Causes skin irritation.

2.1.2 2.1.3 Adverse effects

Aerosol that ignites easily even at low temperatures, risk of fire. The product can be fatal if swallowed and enters airways Pressurized container. Protect from sunlight and do not expose to temperatures higher than 50 °C. Overheated aerosol containers explode and may be projected at distance violently with consequent fire hazard.

2.2 Label elements

2.2.1 Labelling in accordance with Regulation (CE) N. 1272/2008

Pictograms : GHS02



Warning Code : DANGER
Hazard indication codes : H222 – Extremely flammable aerosol.
H229 - Pressurized container: can explode when heated.

Other hazard statements: Not applicable

Precautionary statements:

General

P101 - In case of a doctor's consultation, keep the container or the label of the product available.

P102 - Keep out of reach of children.

Prevention

P210 - Keep away from heat sources, hot surfaces, sparks, naked flames or other sources of ignition. Do not smoke.

P211 - Do not spray on naked flames or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Storage

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

Disposal

P501 – Dispose of the product/recipient in accordance with local regulations, at an authorized collection point.

2.3. Other hazards

Overheated aerosol containers explode and may be projected at distance violently with consequent fire hazard. Do not operate in areas insufficiently ventilated and underground spaces. Gases are heavier than air and may accumulate dangerously.

Since this is an aerosol product equipped with a sealed spraying device, the indications for the danger phrase H304 are not displayed on the label, in accordance with Article 1.3.3 of Regulation (EC) No 23 of Regulation (CE) no. 1272/2008.





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SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Refer to point 16 for the full text of hazard statements.

Substance	Concentration	Classification	CAS	EINECS	REACH
Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics <2% aromatics Index number: not available	47 % < [C] ≤ 51 %	Asp. Tox. 1 H304	- - -	918-481-9	01-2119457273-39
Propane Index number: 601-003-00-5	27 % < [C] ≤ 31 %	Flam. Gas 1A, H220; Press. Gas (Liq.), H280	74-98-6	200-827-9	01-2119486944-21
Butane Index number: 601-004-00-0	11 % < [C] ≤ 15 %	Flam. Gas 1A, H220; Press. Gas (Liq.), H280	106-97-8	203-448-7	01-2119474691-32
Distillates (petroleum), hydrotreated light naphthenic Index number: 649-466-00-2	7 % < [C] ≤ 9 %	Asp. Tox. 1 H304 – Nota L	64742-53-6	265-156-6	01-2119480375-34
Isobutane Index number: 601-004-00-0	1 % < [C] ≤ 3 %	Flam. Gas 1A, H220; Press. Gas (Liq.), H280	75-28-5	200-857-2	01-2119485395-27

{0>SECTION 4.<0} First aid measures

4.1 Description of first aid measures

Inhalation

Ventilate the room. Remove immediately the patient from the contaminated environment and keep at rest in well-ventilated room. Seek medical advice if feeling unwell.

Direct contact with the skin (of the pure product)

Wash thoroughly with soap and water.

Direct contact with the eyes (the pure product)

If present and if feasible, remove any contact lenses. Wash immediately and thoroughly for about 15 minutes with tap water holding eyelids open. Resort to specialized medical treatment.

Ingestion

Do not induce vomiting and do not administer anything unless expressly indicated by the physician, which should be contacted promptly. While waiting for the doctor, keep the injured at rest.

4.2 Main symptoms and effects, both acute and delayed

Data not available

4.3 Indication of the need for immediate medical advice and special treatments

See 4.1 Description of first aid measures. No special treatments are provided.

SECTION 5. Fire-fighting measures

5.1 Extinguisher media

Recommended extinguishing means: Atomized water, CO₂, foam, chemical powders, depending on the materials involved in the fire.

Extinguishing means to avoid: Direct water jets. Use jets of water only to cool the surfaces of the containers exposed to fire.

5.2 Special hazards arising from the substance or mixture

Overheated aerosol containers explode and may be projected at distance violently with consequent fire hazard. Product under pressure in sealed metal case. Cool down the containers with water spray trying to move them away from fire. Overheated aerosol containers explode and may be projected at distance violently (protect your head with safety helmet).

5.3 Recommendations for firefighters

Use protection devices for the respiratory tract. Safety helmet and full protective equipment. The water spray can be used to protect the people involved in the extinction. It is also recommended to use breathing apparatus, especially if you work indoors and in poorly ventilated spaces. Cool the containers with water jets.

SECTION 6. Measures in the event of accidental release

6.1 Personal precautions, protective devices and emergency procedures

For those who do not intervene directly:

Move away from the area surrounding the spill or leak. Do not smoke. Remember that overheating may project the spray at considerable distance.

For those who intervene directly

Given the tightness of the spray, significant leaks are very unlikely to occur. However, if any container is damaged and may leak, isolate the spray in question bringing it outdoors or covering it with inert and non-combustible material (e.g. sand, ground, vermiculite) and be careful to avoid any ignition point that could constitute a serious fire hazard. Prevent the spilled product from reaching watercourses and drains, keep away any source of ignition, the vapors will propagate at ground level and may give rise to risks of intoxication or explosion in underground areas (basements, pits etc.). Wear gloves and protective clothing. Eliminate all naked flames and any sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the danger area and, possibly, consult an expert.

6.2 Environmental precautions

Isolate the spray covering it with inert non-combustible material (e.g. sand, earth, vermiculite). Prevent the spilled product from reaching watercourses and drains, keep away any source of ignition, the vapors will propagate at ground level and may give rise to risks of intoxication or explosion in underground areas (basements, pits etc.).

6.3 Methods and materials for containment and remediation

Consign it exclusively to specialized companies. Contain and absorb the liquid poured, with inert materials absorbing (sand, soil, sepiolite, other specific products) and store the damaged containers in sealed containers.

6.4 Reference to other sections

Refer to points 8 and 13 for further information

SECTION 7. Handling and storage

7.1 Precautions for safe handling

The vapors are heavier than air and may spread at ground level and form explosive mixtures with air. Prevent the accumulation of concentrations that are flammable or explosive in the air. Pressurised container. Protect from sunlight and do not expose to temperatures higher than 50 °C. Do not pierce or incinerate even after use. Do not spray on flames or hot objects. Use in sufficiently ventilated areas.

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7.2 Conditions for safe storage, including any incompatibilities

Keep the containers in vertical and safe position avoiding the possibility of falls or impacts. Pressurised container. Keep in ventilated places, in the original packing to protect from heat sources and from sunlight. Always keep in well ventilated rooms. Keep away from open flames, sparks and heat sources. Avoid direct exposure to the sunlight. Keep away from flames and sparks. Avoid the accumulation of electrostatic charges.

7.3 Specific end-uses

Professional use: Pressurised container. Do not pierce or incinerate even after use. Do not spray on flames or hot objects. Use in sufficiently ventilated areas. Pressurised container. Keep in ventilated places, in the original packing to protect from heat sources and from sunlight.

SECTION 8. Exposure controls/Personal protection

8.1 Control parameters

Related to the substances contained

Substance:	Hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics <2% aromatics								
CAS:	- - - CE: 918-481-9								
GESTIS International Limit Values									
	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m ³		ppm		mg/m ³		
	Not available		Not available		Not available		Not available		
Remarks									
Not available									
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/14975								
DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	No hazard identified	No hazard identified	No hazard identified	No hazard identified	Inhalation (mg/m ³)	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Dermal (mg/kg bw/day)	No hazard identified	No hazard identified	No hazard identified	No hazard identified	Dermal (mg/kg bw/day)	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Oral (mg/kg bw/day)	No hazard identified	No hazard identified	No hazard identified	No hazard identified	Oral (mg/kg bw/day)	No hazard identified	No hazard identified	No hazard identified	No hazard identified
Eyes (mg/kg bw/day)	No hazard identified	No hazard identified	No hazard identified	No hazard identified	Eyes (mg/kg bw/day)	No hazard identified	No hazard identified	No hazard identified	No hazard identified
PNEC									
Freshwater (mg/l)	no data available: testing technically not feasible		Intermittent (mg/l)		Not available		Marine water (mg/l)		no data available: testing technically not feasible
STP (mg/l)	no data available: testing technically not feasible		Sediment (freshwater) (mg/kg/sediment)		no data available: testing technically not feasible		Sediment (marine water) (mg/kg/sediment)		no data available: testing technically not feasible
Air	No hazard identified		Soil (mg/kg soil)		no data available: testing technically not feasible		Hazard for predators		no data available: testing technically not feasible

Substance:	Propane								
CAS:	74-98-6								
GESTIS International Limit Values									
	Limit value - Eight hours				Limit value - Short term				
	ppm		mg/m ³		ppm		mg/m ³		
Austria,	1000		1800		2000		3600		
Belgium	1000		---		---		---		
Canada - Ontario	(1)		---		---		---		
Canada - Québec	1000		1800		---		---		
Denmark	1000		1800		2000		3600		
Finland	800		1500		1000 (1)		2000 (1)		
Germany (AGS)	1000		1800		2000 (1)		7200 (1)		
Germany (DFG)	1000		1800		4000		7200		
Poland	---		1800		---		---		
Romania	778		1400		1000 (1)		1800 (1)		
Spain	1000		---		---		---		
Switzerland	1000		1800		4000		7200		
USA - NIOSH	1000		1800		---		---		
USA - OSHA	1000		1800		---		---		
Remarks									
Canada - Ontario	(1) see aliphatic hydrocarbon gases								
Finland	(1) 15 minutes average value								
Germany (AGS)	(1) 15 minutes average value								
Germany (DFG)	STV 15 minutes average value								
Romania	(1) 15 minutes average value								
Link DNEL value	https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15445								
DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	Inhalation (mg/m ³)	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available
Dermal (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	Dermal (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible





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Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available
PNEC		Intermittent (mg/l)		Not available		Marine water (mg/l)		Not available	
Freshwater (mg/l)	Not available	Sediment (freshwater) (mg/kg/sediment)		Not available		Sediment (marine water) (mg/kg/sediment)		Not available	
STP (mg/l)	Not available	Soil (mg/kg soil)		Not available		Hazard for predators		Not available	
Air	Not available								

Substance: Butane
CAS: 106-97-8

GESTIS International Limit Values

	Limit value - Eight hour:				Limit value - Short term			
	ppm		mg/m ³		ppm		mg/m ³	
Australia	800		1900		---		---	
Austria	800		1600		1600		800	
Belgium	800		1928		---		---	
Canada - Québec	800		1900		---		---	
Denmark	500		1200		1000		400	
Finland	800		1900		000 (1)		2400 (1)	
France	800		1900		---		---	
Germany (AGS)	1000		2400		000 (1)		9600 (1)	
Germany (DFG)	1000		2400		4000		600	
Hungary	-		2350		---		400	
Japan - JSOH	500		1200		---		---	
Latvia	---		301		---		---	
New Zealand	800		1900		---		---	
Poland	---		1900		---		000	
Singapore	800		1900		---		---	
South Korea	800		1900		---		---	
Spain	800		1935		---		---	
Switzerland	800		1900		---		---	
USA - NIOSH	800		1900		---		---	
United Kingdom	600		1450		750		810	

Remarks

Canada - Ontario (1) see aliphatic hydrocarbon gases
Finland (1) 15 minutes average value
Germany (AGS) (1) 15 minutes average value
Germany (DFG) STV 15 minutes average value

Link DNEL value <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15434>

	DNEL (Workers)					DNEL (Population)			
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	Inhalation (mg/m ³)	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available
Dermal (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	Dermal (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available
PNEC		Intermittent (mg/l)		Not available		Marine water (mg/l)		Not available	
Freshwater (mg/l)	Not available	Sediment (freshwater) (mg/kg/sediment)		Not available		Sediment (marine water) (mg/kg/sediment)		Not available	
STP (mg/l)	Not available	Soil (mg/kg soil)		Not available		Hazard for predators		Not available	
Air	Not available								

Substance: Distillates (petroleum), hydrotreated light naphthenic

CAS: 64742-53-6

GESTIS International Limit Values

	Limit value - Eight hour:				Limit value - Short term				
	ppm		mg/m ³		ppm		mg/m ³		
	Not available		Not available		Not available		Not available		
Remarks									

Link DNEL value <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15734>

	DNEL (Workers)					DNEL (Population)			
	Systemic		Local			Systemic		Local	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	2.73	no hazard identified	5.58	no hazard identified	Inhalation (mg/m ³)	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected





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Dermal (mg/kg bw/day)	0,97	no hazard identified	high hazard (no threshold derived)	no hazard identified	Dermal (mg/kg bw/day)	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected	hazard unknown but no further hazard information necessary as no exposure expected
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	0,74	hazard unknown but no further hazard information necessary as no exposure expected	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	No hazard identified	Not available	Eyes (mg/kg bw/day)	Not available	Not available	hazard unknown but no further hazard information necessary as no exposure expected	Not available
PNEC									
Freshwater (mg/l)	no data available: testing technically not feasible		Intermittent (mg/l)	Not available		Marine water (mg/l)	no data available: testing technically not feasible		
STP (mg/l)	no data available: testing technically not feasible		Sediment (freshwater) (mg/kg/sediment)	no data available: testing technically not feasible		Sediment (marine water) (mg/kg/sediment)	no data available: testing technically not feasible		
Air	Not available		Soil (mg/kg soil)	no data available: testing technically not feasible		Hazard for predators	9,33		

Substance: Isobutane
CAS: 75-28-5

GESTIS International Limit Values

	Limit value - Eight hour:				Limit value - Short term				
	ppm		mg/m ³		ppm		mg/m ³		
Belgium	1000		-		-		-		
Finland	100		1900		1000 (1)		2400 (1)		
Germany (AGS)	1000		2400		1000 (1)		9600 (1)		
Germany (DFG)	1000		2400		4000		600		
Switzerland	100		1900		-		-		
Remarks									
Finland	(1) 15 minutes average value								
Germany (AGS)	(1) 15 minutes average value								
Germany (DFG)	STV 15 minutes average value								

Link DNEL value <https://echa.europa.eu/it/registration-dossier/-/registered-dossier/15456>

	DNEL (Workers)					DNEL (Population)				
	Systemic		Local			Systemic		Local		
	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term	Long term	Short term
Inhalation (mg/m ³)	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	Inhalation (mg/m ³)	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available	no-threshold effect and/or no dose-response information available
Dermal (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	Dermal (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible	no data available: testing technically not feasible
Oral (mg/kg bw/day)	Not available	Not available	Not available	Not available	Oral (mg/kg bw/day)	no data available: testing technically not feasible	no data available: testing technically not feasible	Not available	Not available	Not available
Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Eyes (mg/kg bw/day)	Not available	Not available	Not available	Not available	Not available
PNEC										
Freshwater (mg/l)	Not available		Intermittent (mg/l)	Not available		Marine water (mg/l)	Not available			
STP (mg/l)	Not available		Sediment (freshwater) (mg/kg/sediment)	Not available		Sediment (marine water) (mg/kg/sediment)	Not available			
Air	Not available		Soil (mg/kg soil)	Not available		Hazard for predators	Not available			


8.2 Exposure controls

If as a result of the evaluation of risk and technical preventive measures and/or collective safety organization shows that there is still a residual risk to the worker, you must give the worker of the Personal Protective Equipment.


8.2.1 Suitable technical checks

Data not available

8.2.2 Personal protection measures, i.e. personal protective equipment**A. EYE AND/OR FACE PROTECTION**

PICTOGRAM	PPEs	OBSERVATIONS
 Glasses	PPE for the eyes are of category II and must bear the CE marking and the number of the notified body that issued the certification. Standard EN166 PPE Requirements - specifications	Goggles and face mask manufactured with a ventilation system that prevents dust/or liquids from entering the eyes.

B. SKIN PROTECTION**i) HAND PROTECTION**

PICTOGRAM	PPEs	OBSERVATIONS
 Gloves	Gloves that protect against chemicals. Standard EN374 Gloves that provide protection against chemicals and micro-organisms. In relation to the contact time use gloves with appropriate IP (Permeation Index).	Wear waterproof gloves compliant with standard EN374-1, -2 and -3 (i.e. nitrile minimum thickness 0.3 - neoprene minimum thickness 0.55). Gloves must be checked before use. Use appropriate gloves removal technique (without touching the outer surface of the glove) to avoid skin contact with the contaminated outer surface of the glove. It is suggested that you test the gloves before determining what type and model to use.





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ii) BODY PROTECTION

PICTOGRAM	PPEs	OBSERVATIONS
 Work equipment	Standard UNI EN ISO13688 Protective clothing - General requirements	Preferably use antistatic cotton garments during handling.

C. RESPIRATORY PROTECTION

PICTOGRAM	PPEs	OBSERVATIONS
 Filter masks	The choice of PPE must be made according to standard UNI EN 529:2006 (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidance document) by establishing the proper OPF "Operating Protection Factor" (i.e. can be used UNI EN149 face masks - Respiratory tract protective devices - Half-mask that protects against dust particles).	Under normal work conditions, in the presence of air, no PPE is required. If operating conditions may involve the use of the product under conditions of poor air circulation and possible stagnation of mists and/or vapors of product, use respiratory protection.

D. THERMAL HAZARDS

Protect from sunlight and do not expose to temperatures higher than 50 °C.

8.2.3 ENVIRONMENTAL EXPOSURE CONTROLS

Avoid product release into the environment

SECTION 9. Physical and Chemical Properties

9.1 Information on fundamental physical and chemical properties

The physical and chemical properties listed below are not technical specifications. The reference specifications are provided in the technical documentation.

Physical and chemical properties	Value	Notes or analytical method
Appearance	Liquid in gaseous suspension	Visual
Odour	Characteristic of solvent	Olfactory
Olfactory threshold	Not determined	---
pH	Not applicable	---
Melting point/freezing point	Not determined	---
Initial boiling point and boiling range	Not determined	---
Flash point	<0°C	---
Evaporation rate	Not determined	---
Flammability (solid, gas)	Highly flammable	---
Upper/lower flammability or explosion limits	1,8 - 9,5%	---
Vapour pressure	Not determined	---
Steam density	Not available	---
Relative density	0.670 ± 0.005	---
Water solubility	Insoluble	---
Partition coefficient: n-octanol/water	Not determined	---
Self-ignition temperature	~ 400°C	---
Decomposition temperature	Not determined	---
Kinematic viscosity	> 2.05 mm ² /s (at 40°C)	---
Explosive properties	Undetermined	---
Oxidizing properties	Undetermined	---

9.2 More information

Volume of the container	520 ml	By volume
Volume of the product	400 ml	By volume
Spray test pressure	12 bar	---
Flammability of the propellant	Highly flammable	---
VOC (Volatile organic compounds)	100%	---

SECTION 10. Stability and reactivity

10.1 Reactivity

Stable under normal conditions of use and storage.

10.2 Chemical stability

The aerosol remains stable for a period of 36 months; under normal conditions of storage no dangerous reactions may occur if the container is not hermetically sealed.

10.3 Possibility of dangerous reactions

There are no dangerous reactions

10.4 Conditions to be avoided

Shock and friction	Contact with air	Heating	Sunlight	Humidity
ONE	Not applicable	Avoid heating	Do not expose to direct light	Not applicable

10.5 Incompatible materials

Acids	Basis	Water	Oxidizing/Reducing Agents	Other
ONE	ONE	NO	ONE	NO

10.6 Hazardous decomposition products

Under normal conditions, the preparation does not decompose. By thermal decomposition, fumes harmful to health develop.





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SECTION 11. Toxicological information

11.1 Information on toxicological effects

Hazard class		Classification
(a)	Acute toxicity	: Non classified. On the basis of available data, the classification criteria are not met
(b)	Skin corrosion/ skin irritation	: Non classified. On the basis of available data, the classification criteria are not met
(c)	Severe eye damage/eye irritation.	: Non classified. On the basis of available data, the classification criteria are not met
(d)	Respiratory or skin sensitisation	: Non classified. On the basis of available data, the classification criteria are not met
(e)	Mutagenicity on germ cells	: Non classified. On the basis of available data, the classification criteria are not met
(f)	Carcinogenicity	: Non classified. On the basis of available data, the classification criteria are not met
(G)	Reproductive toxicity	: Non classified. On the basis of available data, the classification criteria are not met
(h)	Specific toxicity to target organs (STOT) - single exposure	: Non classified. On the basis of available data, the classification criteria are not met
(s)	Specific toxicity to target organs (STOT)- repeated exposure:	: Non classified. On the basis of available data, the classification criteria are not met
(j)	Aspiration hazard	: The product can be fatal if swallowed and enters airways However, as it is an aerosol product with a sealed spray device, the indications for the danger phrase H304 are not on the label, in accordance with exemption 1.3.3 pursuant to article 23 of (CE) Regulation no. 1272/2008.

Related to the substances contained

GPL - Hydrocarbons, aliphatic (gaseous) C1-C4

EXPOSURE ROUTES

RISKS FOR INHALATION

OF SHORT TERM EXPOSURE

ACUTE RISKS/ SYMPTOMS

INHALATION	Drowsiness. State of unconsciousness.	The substance can be absorbed into the body by inhalation.
SKIN	IN CONTACT WITH THE LIQUID: FREEZING	If it leaks, the liquid evaporates very quickly replacing the air and causing a severe risk of suffocation in confined spaces. EFFECTS
EYES	IN CONTACT WITH THE LIQUID: FREEZING	Contact with rapidly evaporating liquid may cause frostbite. The substance may cause effects on the central nervous system
NOTES	Check the oxygen content before entering the area. High concentrations in the atmosphere cause oxygen deficiency with loss of consciousness or death.	

SECTION 12. Ecological information

12.1 Toxicity

Use according to good working practices and dispose of carefully.

12.2 Persistence and degradability

In the air, photochemical degradation takes place at a moderate rate. Considered as unimportant in episodic ozone formation. Does not contain surfactants.

12.3 Bioaccumulation potential

Data not available

12.4 Mobility in soil

Data not available

12.5 Results of the PBT and vPvB evaluation

The substance/mixture contains NO substances classified as PBT/vPvB pursuant to Regulation (CE) 1907/2006, Annex XIII

12.6 Other adverse effects

Data not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Waste must be disposed of in compliance with the regulations by delivering empty containers to an authorised waste disposal centre equipped to safely handle pressurized containers containing flammable liquids and debris. The empty container heated to temperatures above 70° C can burst. Operate in accordance with the local and national regulations in force. NB – the EWC suggested code (s) s refers to the product as such without considering any impurities present after use. Therefore, it is recommended to reclassify the waste prior to disposal by assessing the origin thereof as well. The EWC code attributed may be different.

CER code	Description	Notes
150110*	Packaging containing residues of or contaminated by dangerous substances	HP3 – Flammable (STOT)/Toxicity in case of aspiration

SECTION 14. Transport Information

	UN Number	ADR	IMDG	IATA
14.1	UN Number		1950	
14.2	ONU shipping name		Flammable AEROSOLS	
14.3	Class		2	
	Label			
14.4	Packaging group		Not planned	
	Limited quantities			
	Internal packaging (primary)	1 L		1 L
	Outer packaging (Note 1)	30 kg or 20 kg		30 Kg
	Packing Instruction	Not applicable	Not applicable	Y203
	Code of restriction in tunnels.	D	Not applicable	Not applicable
	Ems	Not applicable	F-D, S-U	Not applicable
	Storage and isolation	Not applicable	SW1/SW22 – SG69	Not applicable





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14.5	Environmental hazards	NO		
	Marine Contaminant	Not applicable	NO	Not applicable
14.6	Special precautions for users	As with all goods classified as dangerous for transport, all handling must be carried out in accordance with the specific rules for each type of transport under the control, if required by law, by a specialist in safe transport of dangerous goods.		
14.7	Bulk transport according to Annex II of MARPOL 73/78 and the IBC code	Transport in bulk not provided		

(Note 1)

30 kg in the case of boxes – 20 kg in the case of trays with extensible or heatproof film

SECTION 15 Regulatory information**15.1 Standards and Legislation on Health, Safety and Environmental Specifications for the Substance or Mixture.****Legislative Decree 09/04/2008 n° 81 - TITLE IX Chapter II**

It does not contain substances defined as carcinogenic within the meaning of art.234.

The use of this product entails the obligation of the "Risk Assessment" by the employer in accordance with the provisions of the Legislative Decree. 9 April 2008 n. 81. Workers exposed to this chemical agent must not be subjected to health surveillance if the outcome of the risk assessment shows that, in relation to the type and quantity of a dangerous chemical agent and the mode and frequency of exposure to this agent, there is only a "moderate risk" for health and safety of workers and that the measures provided for in the same Decree are sufficient to reduce the risk.

Law Decree Government No 52 of 03/02/1997

(Implementation of Directive 92/32/CEE on classification, packaging and labelling of dangerous substances).

Legislative Decree Government No 25 of 02/02/2002

(Implementation of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at workplace).

DM of 26/02/2004

(Definition of a first list of indicative occupational exposure limit values to chemical agents).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council dated December 18, 2006 as amended

On the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repeals Regulation (EEC) No 793/93 Of the Council and the Regulation (CE) no 1488/94 Of the Commission and the Council Directive 76/769/EEC, the directives of the Commission 91 /155/CEE , 93 67/67 , 93 /105/CE and

Regulation (EC) No 1272/2008 of the European Parliament and of the Council dated December 16, 2008 as amended

On the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.

Directive 75/324 and changes

On the harmonization of the laws of the Member States relating to aerosols.

15.2 Chemical safety assessment

Chemical safety assessment for the unplanned mixture.

This safety data sheet contains one or more Exposure Scenarios in an integrated form. The content, where applicable, was included in sections 1.2, 8, 9, 12, 15 and 16 of the same safety data sheet

SECTION 16. More information**16.1 Other information****Description of the class and category danger codes exposed in section 3**

Asp. Tox. 1 Dangerous by inhalation, hazard category 1
Flam. Gas 1 Flammable liquid, Category 1
Press. Gas Liquefied gas

Classification based on the data of all the components of the mixture**Description of hazard phrases set out in point 3**

H304 = May be fatal if swallowed and enters airways.
H220 = Highly flammable gas.
H280 = Contains gas under pressure; may explode if heated.

ANTIPOISON CENTRE

EUROPE			
Antipoison centre	AUSTRIA - Vergiftungsinformationszentrale	Antipoison centre	BELGIUM - Centre Antipoisons-Antigifcentrum
Emergency phone	+43 1 406 43 43	Emergency phone	+32 70 245 245
Antipoison centre	CROATIA - Poison Control Centre Zagreb	Antipoison centre	FRANCE - ORFILA_Liste des centres anti poison
Emergency phone	+358 1 2348 342	Emergency phone	+33 1 40 05 48 48
Antipoison centre	FRANCE - Centre antipoison et de toxicovigilance de Paris	Antipoison centre	GERMANY - Deutschland Notrufnummer
Emergency phone	+33 (0)1 40 05 48 48	Emergency phone	+49 030 30 68 67 90
Antipoison centre	NETHERLANDS - National Poisons Information Centre	Antipoison centre	SPAIN - Emergencias y consultas toxicológicas
Emergency phone	+31 30 274 88 88	Emergency phone	+34 915 620 420

MAIN BIBLIOGRAPHIC SOURCES

ECHA	European Chemicals Agency	OSHA	European Agency for Safety and Health at Work	IARC	International Agency for Research on Cancer
IPCS	International Programme on Chemical Safety (Cards)	NIOSH	Registry of toxic effects of chemical substances (1983)	ACGIH	American Conference of Governmental Industrial Hygienists
TOXNET	Toxicology Data Network	WHO	World Health Organization	CheLIST	Chemical Lists Information System
IFA	Institute für Arbeitsschutz.				

ACRONYMS AND ABBREVIATIONS USED IN THE MSDS

CAS:	Chemical Abstracts Service	GHS:	Globally Harmonized System	EINECS:	European Inventory of Existing Commercial Chemical Substances	ONU:	United Nation Organization
DNEL:	Derived no-effect level	PNEC:	Predicted no-effect level	EWG:	European Waste Catalogue	EC50:	Effective concentration 50
EC:	European Inventory of Existing Commercial Chemical Substances	K _{oc} :	Absorption coefficient of a compound into organic substance	STP:	Micro-organisms in waste water purification system	{>TLV <0}- {>TWA;<0}	Threshold limit value – weighted average over time
TLV - STEL:	Threshold limit value – limit for short exposure time	EN:	Acronym that identifies the standards developed by CEN	SUVA:	Independent public law company of the Swiss social security system.	VME:	Limit exposure value
VL:	Limit exposure value	L. Decree:	Legislative Decree	DM:	Ministerial Decree	CE:	European Community
PPE:	Personal Protective Equipment	UNI:	Italian Agency for Standardization	ppm:	Parts per million	ISO:	International Standard Organization
CEN:	European Committee for Standardization	STOT:	Specific Target Organ Toxicity	DL50:	Lethal dose 50%	CL50:	Lethal concentration 50%
PBT:	Persistent, Bioaccumulative and Toxic	vPvB:	very persistent and very bioaccumulative	IATA:	International Air Transport Association	DMEL:	Derived minimum effect level

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ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route	IMDG:	International Maritime Dangerous Goods	EmS:	Emergency Response Procedures for Ships Carrying Dangerous Goods	REACH:	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
N.A.S.:	Not Otherwise Specified	N.A.:	Not available	N.A.:	Not applicable		

This safety data sheet fully replaces all previous versions.

Material Safety Data Sheet as per Regulation (UE) no. 2015/830 of 29 May 2015 and subsequent amendments

The information on this safety data sheet has been obtained from the best available or known to us on the market at the indicated review date. Neither the Company owned by this card nor the subsidiaries will accept complaints arising from misuse of the information indicated herein or misuse in the application of the product. Pay particular attention to the use of the preparations because improper use may increase the hazard.

