СН	EMITOOL		Revision nr. 15				
₩ hardwa	re and tools		Dated 10/10/2020				
			Printed on 18/11/2020				
CHEMISOL ALL-IN-C	ONE 400 ml CHEMITO	OL	Page n. 1/15				
			Replaced revision:14 (Dated: 22/02/2019)				
Accord	Safety Data Sheet According to Annex II to REACH - Regulation 2015/830						
SECTION 1. Identification of the subs		ne company/under	laking				
<b>1.1. Product identifier</b> Code: Product name UFI :	CHC040106 CHEMISOL ALL-IN-ONE 400 m D720-30K4-X006-VWU6	I CHEMITOOL					
	nixture and uses advised agains unctions in 1: unlocking, lubrica f, dissolves rust, resistant to hig	ting, protective, penetrati	ing, degreasing, anti-corrosion,				
Identified Uses	Industrial	Professional	Consumer				
Consumer	-	-	4				
Industrial Use	4	-	-				
Professional Use	-	4	-				
1.3. Details of the supplier of the safety data sheet Name	LUSAVOUGA – Máquinas e Ac	accórios Industriais SA					
Full address	Edifício Lusavouga	.65501105 1100501015, 5.A					
District and Occurrent	Avenida Europa, 375						
District and Country	3800-533 Cacia Portugal						
	tel. +351 234 915 010						
	fax +351 234 915 015						
e-mail address of the competent person							
responsible for the Safety Data Sheet	qualidade@lusavouga.pt						
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	American Association of Poisc	on Control Centers (USA)	: Tel. +1 (800) 222 1222				

# **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.



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### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.
P211	Do not spray on an open flame or other ignition source.
P102	Keep out of reach of children.

Statements on the aspiration toxicity classification were not included in the label elements, based on section 1.3.3. of Annex I to CLP.

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**SECTION 3. Composition/information on ingredients** 

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, <2% aromatics CAS -	47≤x< 51	Asp. Tox. 1 H304, EUH066
EC 918-481-9		
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			Replaced revision:14 (Dated
Reg. no. 01-2119457273-39-XXXX			
Distillates (petroleum), hydrotreated light naphthenic CAS 64742-53-6	15≤x< 19	Asp. Tox. 1 H304, Classification note according to Anne Regulation: L	x VI to the CLP
EC 265-156-6			
INDEX 649-466-00-2			
Reg. no. 01-2119480375-34-XXXX			
Propane			
CAS 74-98-6	11 ≤ x < 15	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classificat	ion note according to
EC 200-827-9		Annex VI to the CLP Regulation: U	
INDEX 601-003-00-5			
Reg. no. 01-2119486944-21-0046			
Butane			
CAS 106-97-8	5≤x< 7	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classificat Annex VI to the CLP Regulation: C U	ion note according to
EC 203-448-7		, and the second s	
INDEX 601-004-00-0			
Reg. no. 01-2119474691-32-XXXX			
Benzenesulfonic acid, mono-C19- 28-alkyl derivs., sodium salts CAS 70024-73-6	1≤x< 3	Aquatic Chronic 4 H413	
EC 274-265-8			
INDEX -			
Polytetrafluorethylene (PTFE)			
CAS 9002-84-0	1≤x< 3		
EC 618-337-2			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 19,30 %

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### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.



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4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

### 6.2. Environmental precautions

Do not disperse in the environment.

### 6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.



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### 7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

### 7.3. Specific end use(s)

Information not available

## **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Regulatory References:

DEU ESP FRA	Deutschland España France	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
	ronagai	trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
	TLV-ACGIH	ACGIH 2020
GBK	5	

## Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Predicted no-effect concentration - PNEC

Normal value for the atmosphere

NPI

Distillates (petroleum),	hydrotreated light	naphthenic						
Predicted no-effect concent	ration - PNEC							
Normal value for the food chain (secondary poisoning) 9,33 mg/kg								
Health - Derived no-eff	ect level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			•		5.4 mg/m3 8h			

#### Propane

Threshold Limit Valu	ue						
Туре	Country	TWA/8h	TWA/8h			Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	1800	1000	7200	4000		
MAK	DEU	1800	1000	7200	4000	· · · · · ·	
VLA	ESP		1000	· · · ·	·		
NDS/NDSCh	POL	1800					

NDS/NDSCh

POL



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### Duter

Type         Country         TWA/8h         STEL/15min         Remarks / Observations           AGW         DEU         2400         1000         9600         4000	Butane Threshold Limit Value	9						
AGW         DEU         2400         1000         9600         4000           MAK         DEU         2400         1000         9600         4000           MAK         DEU         2400         1000         9600         4000           VLA         ESP         1000         9600         4000           VLEP         FRA         1900         800			TWA/8h		STEL/15min			
MAK         DEU         2400         1000         9600         4000           VLA         ESP         1000         800         Gases           VLEP         FRA         1900         800			mg/m3	ppm	mg/m3	ppm		
VLA         ESP         1000         Gases           VLEP         FRA         1900         800	AGW	DEU	2400	1000	9600	4000		
VLEP         FRA         1900         800           NDS/NDSCh         POL         1900         3000           WEL         GBR         1450         600         1810         750           WEL         GBR         4         RESP         Introduction         RESP           TLV-ACGIH         Image: constraint of the second secon	MAK	DEU	2400	1000	9600	4000		
NDS/NDSCh         POL         1900         3000           WEL         GBR         1450         600         1810         750           WEL         GBR         4         RESP           TLV-ACGIH         Image: constraint of the second of the s	VLA	ESP		1000			·	Gases
WEL         GBR         1450         600         1810         750           WEL         GBR         4         RESP           TLV-ACGIH         1000         1000           Polytetrafluorethylene (PTFE)           Threshold Limit Value           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           TLV-ACGIH         10         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         10         STEL/15min         Remarks / Observations         Observations           Stolutane Threshold Limit Value           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           TLV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         Remarks         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         Remarks         STEL/15min         Remarks / Observations         Observations	VLEP	FRA	1900	800				
WEL         GBR         4         RESP           TLV-ACGIH         1000         Polytetrafluorethylene (PTFE)         1000           Polytetrafluorethylene (PTFE)           Threshold Limit Value         TWA/8h         STEL/15min         Remarks / Observations           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           TLV-ACGIH         10         STEL/15min         Remarks / Observations         POLVERI           Isobutane Threshold Limit Value         T         YPP         POLVERI         POLVERI           Type         Country         TWA/8h         STEL/15min         Remarks / Observations         Observations           TV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         TMR/8h         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         800         STEL/15min         Remarks / Observations         Observations           Type         Country         TWA/8h	NDS/NDSCh	POL	1900		3000			
TLV-ACGIH       1000         Polytetrafluorethylene (PTFE)         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         TLV-ACGIH       10       POLVERI       POLVERI         Isobutane         Threshold Limit Value       10       POLVERI         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Threshold Limit Value         TLV-ACGIH       800       STEL/15min       Observations         Observations         Distillates (petroleum), hydrotreated heavy maphthenic         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Observations         Observations         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Observations         Observations         Observations         Observations	WEL	GBR	1450	600	1810	750		
Polytetrafluorethylene (PTFE)         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         TLV-ACGIH       10       POLVERI         Isobutane         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Threshold Limit Value         Trype       Country       TWA/8h       STEL/15min       Remarks / Observations         Distillates (petroleum), hydrotreeted heavy maphthenic         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Distillates (petroleum), hydrotreeted heavy maphthenic         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Country       Observations         Distillates (petroleum), hydrotreeted heavy maphthenic       Threshold Limit Value         Type       Country       TWA/8h <th< td=""><td>WEL</td><td>GBR</td><td></td><td>4</td><td></td><td></td><td>RESP</td><td></td></th<>	WEL	GBR		4			RESP	
Threshold Limit Value           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           TLV-ACGIH         10         POLVERI           Isobutane Threshold Limit Value         TWA/8h         STEL/15min         Remarks / Observations           Type         Country         TWA/8h         STEL/15min         POLVERI           Isobutane Threshold Limit Value         TWA/8h         STEL/15min         Remarks / Observations           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           Type         Figure 5         10         Image: 5         Image: 5           VLA         ESP         5         10         Image: 5           VLE         PRT <td>TLV-ACGIH</td> <td></td> <td><u> </u></td> <td></td> <td></td> <td>1000</td> <td></td> <td></td>	TLV-ACGIH		<u> </u>			1000		
Type         Country         TWA/8h         STEL/15min         Remarks / Observations           TLV-ACGIH         10         mg/m3         ppm         mg/m3         ppm           Isobutane Threshold Limit Value         10         STEL/15min         Remarks / Observations         POLVERI           Isobutane Threshold Limit Value         10         STEL/15min         Remarks / Observations         POLVERI           Type         Country         TWA/8h         STEL/15min         Remarks / Observations         Observations           TLV-ACGIH         mg/m3         ppm         mg/m3         ppm           TLV-ACGIH         800         STEL/15min         Remarks / Observations           Distillates (petroleum), hydrotreated heavy naphthenic         STEL/15min         Remarks / Observations           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           Type         ESP         5         10         INHAL <td>Polytetrafluorethylen</td> <td>e (PTFE)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Polytetrafluorethylen	e (PTFE)						
mg/m3         ppm         mg/m3         ppm           TLV-ACGIH         10         POLVERI           Isobutane Threshold Limit Value         10         POLVERI           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           mg/m3         ppm         mg/m3         ppm           TLV-ACGIH         800         800         Important (Country Country	Туре		TWA/8h		STEL/15min			
Isobutane         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         mg/m3       ppm       mg/m3       ppm         TLV-ACGIH       800       800         Distillates (petroleum), hydrotreated heavy naphthenic         Treshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Type         Country       TWA/8h       STEL/15min       Remarks / Observations         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Type       Country       TWA/8h       STEL/15min       Ng/m3       ppm         VLA       ESP       5       10			mg/m3	ppm	mg/m3	ppm	Observations	
Threshold Limit Value           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           mg/m3         ppm         mg/m3         ppm           TLV-ACGIH         800         STEL/15min         Remarks / Observations           Distillates (petroleum), hydrotreated heavy naphthenic Threshold Limit Value           TVV-ACGIH           Type         Country           TWA/8h         STEL/15min           Remarks / Observations           Type         Country           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           Type         Country         TWA/8h         STEL/15min         Remarks / Observations           VLA         ESP         5         10         Observations           VLEP         ITA         5         10         INHAL           VLE         PRT         5         10         Interview           NDS/NDSCh         POL         5         S         S	TLV-ACGIH		10					POLVERI
ng/m3       ppm       ng/m3       ppm         TLV-ACGIH       800         Distillates (petroleum), hydrotreated heavy naphthenic         Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         VLA       ESP       5       10       10         VLEP       ITA       5       10       10         VLE       PRT       5       10       10         NDS/NDSCh       POL       5       10       10         Predicted no-effect concentration - PNEC	Isobutane Threshold Limit Value	9						
TLV-ACGIH       800         Distillates (petroleum), hydrotreated heavy naphthenic Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         VLA       ESP       5       10       Image: Country         VLEP       ITA       5       10       Image: Country         VLE       PRT       5       10       Image: Country         NDS/NDSCh       POL       5       5       5         Predicted no-effect concentration - PNEC       S       S       S	Туре	Country	TWA/8h					
Distillates (petroleum), hydrotreated heavy naphthenic Threshold Limit Value         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         Type       Country       TWA/8h       STEL/15min       Remarks / Observations         VLA       ESP       5       10         VLEP       ITA       5       10         VLE       PRT       5       10         NDS/NDSCh       POL       5       10         Predicted no-effect concentration - PNEC       5       10		·	mg/m3	ppm	mg/m3	ppm		
Type         Country         TWA/8h         STEL/15min         Remarks / Observations           mg/m3         ppm         mg/m3         ppm           VLA         ESP         5         10           VLEP         ITA         5         10           VLE         PRT         5         10           NDS/NDSCh         POL         5         10	TLV-ACGIH			800				
Image: March			avy naphthenic	:				
VLAESP510VLEPITA5INHALVLEPRT510NDS/NDSChPOL5Fredicted no-effect concentration - PNEC	Туре	Country	TWA/8h		STEL/15min			
VLEP     ITA     5     INHAL       VLE     PRT     5     10       NDS/NDSCh     POL     5			mg/m3	ppm	mg/m3	ppm		
VLE     PRT     5     10       NDS/NDSCh     POL     5       Predicted no-effect concentration - PNEC	VLA	ESP	5		10			
NDS/NDSCh POL 5 Predicted no-effect concentration - PNEC	VLEP	ITA	5	· · ·	·	•	INHAL	
Predicted no-effect concentration - PNEC	VLE	PRT	5		10			
	NDS/NDSCh	POL	5					
Normal value for the food choin (cooperation) 0.22 mailting	Predicted no-effect concer	ntration - PNEC						
Normal value for the food chain (secondary poisoning) 9,33 mg/kg	Normal value for the food	chain (secondary poiso	oning)		9,33	m	g/kg	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.



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## HAND PROTECTION

None required.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	aerosol
Colour	straw yellow
Odour	characteristic of solvent
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	flammable gas
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	0,5 hPa 20°C
Vapour density	Not available
Relative density	0, 76 ÷ 0,80 g/ml 20°C
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	< 8 mm2/s 40°C
Explosive properties	not applicable



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Oxidising properties

not applicable

### 9.2. Other information

VOC (Directive 2010/75/EC) : 89,43 % - 697,51 g/litre

## **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

Avoid overheating.

Polytetrafluorethylene (PTFE)

Avoid exposure to: >400 °C.

### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

Polytetrafluorethylene (PTFE)

May react dangerously if exposed to: metals in powder form from 370 ° C.

### 10.6. Hazardous decomposition products

Polytetrafluorethylene (PTFE)

May develop: hydrofluoric acid, carbonyl fluoride, tetrafluoroethylene, hexafluorpropylene, perfluoroisobutylene.

## **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

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Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component)

Distillates (petroleum), hydrotreated light naphthenic

LD50 (Oral) 5000 mg/kg bw rat

LD50 (Dermal) 3500 mg/kg bw rabbit

LC50 (Inhalation) 3,85 mg/l/4h rat

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

LD50 (Oral) > 5000 mg/kg bw rat

LD50 (Dermal) 2000 mg/kg bw rat

LC50 (Inhalation) > 4 mg/l/4h rat

Butane

LC50 (Inhalation) > 1442,738 mg/l/15min rat

Propane

LC50 (Inhalation) 800000 ppm 15 min

**SKIN CORROSION / IRRITATION** 

Repeated exposure may cause skin dryness or cracking.

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### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Toxic for aspiration

## **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Chronic NOEC for Algae / Aquatic Plants	1000 mg/l 72 hours
Butane LC50 - for Fish	> 24,11 mg/l/96h
Propane LC50 - for Fish EC50 - for Crustacea	85,82 mg/l/96h 41,82 mg/l/48h

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0,1 - 100 mg/l

0,1 - 100 mg/l

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### 12.2. Persistence and degradability

Propane Global Warming Potential (GWP): 3. Ozone Depletion Potential (ODP): 0.

Distillates (petroleum), hydrotreated light naphthenic Degradability: information not available

Echa sources

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Rapidly degradable But failing the 10-day window (100%).

Butane

Solubility in water Rapidly degradable

Propane

Solubility in water

Rapidly degradable

Benzenesulfonic acid, mono-C19-28-alkyl derivs., sodium salts Degradability: information not available

### 12.3. Bioaccumulative potential

Butane	
Partition coefficient: n-octanol/water	1,09
Propane	
Partition coefficient: n-octanol/water	1,09

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

### 12.6. Other adverse effects

Information not available

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## **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Product residues are considered hazardous special waste. Do not dispose of in wastewater. Empty cylinders, although completely emptied, should not be dispersed in the environment. The overheated aerosol container at a temperature above 50 °C may burst even if it contains a small gas residue. Waste transport may be subject to ADR.

Refer to applicable regulations.

European Waste Catalog (contaminated containers):

Aerosol as a household waste is excluded from the application of the above standard.

The exhausted commercial / industrial aerosol can be classified as: 15.01.10 \*: packaging containing residues of dangerous or contaminated substances.

## **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, 1950 IATA:

### 14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

### 14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
IATA:	Class: 2	Label: 2.1



### 14.4. Packing group

ADR / RID, IMDG, IATA:

### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

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### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler:	Limited Quantities: 1 L	Tunnel restriction code: (D)
	Special Provision: -		
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	– Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75	Packaging instructions: 203
	Special Instructions:	Kg A145, A167, A802	203

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

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Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Press. Gas (Liq.)	Liquefied gas
Asp. Tox. 1	Aspiration hazard, category 1
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H280	Contains gas under pressure; may burst if heated.
H304	May be fatal if swallowed and enters airways.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
   PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit



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TWA: Time-weighted average exposure limit

- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- Regulation (EU) 2015/830 of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01